

WHAT IS CLAIMED IS:

1. A low profile contact comprising:

a resilient spring portion having a first end and a second end; and

a first contact beam and a second contact beam extending from said respective first and second ends of said spring portion, said first contact beam and said second contact beam having substantially parallel distal end portions, at least one of said distal end portions comprising an upstanding guide surface configured to receive and align a connection pin between said distal end portions.
2. A low profile contact in accordance with Claim 1, wherein each of said distal end portions comprise guide surfaces, said guide surfaces divergently flared relative to one another.
3. A low profile contact in accordance with Claim 1, said distal end portions adapted to receive a pin therebetween as the pin is inserted along an axis perpendicular to a longitudinal axis of said first and second distal end portions.
4. A low profile contact in accordance with Claim 1, wherein said spring portion is arched between said first and second ends.
5. A low profile contact in accordance with Claim 1, at least one of said first and second contact beams adapted to communicate with a solder ball.
6. A low profile contact in accordance with Claim 1, wherein each of said distal end portions extend along a longitudinal axis, said contact beams having a lower edge and an upper edge, said guide surface extending from said upper edge and having a flared tip.
7. A low profile contact in accordance with Claim 6, said contact having a profile dimension measured along an insertion axis extending substantially perpendicular to said longitudinal axis, said profile dimension being less than about 2mm between said tip and said lower edge.

8. A low profile contact assembly comprising:

a first contact comprising a curved resilient spring portion having a first end and a second end, and a first contact beam and a second contact beam extending from said respective first and second ends of said spring portion;

a second contact comprising a curved resilient spring portion having a first end and a second end, and a first contact beam and a second contact beam extending from said respective first and second ends of said spring portion; and

said first and second contacts arranged inversely to one another such that said spring portions of each of said first and second contacts are oriented toward one another in a nested configuration.

9. A low profile contact assembly in accordance with Claim 8 wherein at least one of said first and second contacts includes a first contact beam and a second contact beam having substantially parallel distal end portions, at least one of said distal end portions comprising an upstanding guide surface configured to receive and align a connection pin between said distal end portions.

10. A low profile contact assembly in accordance with Claim 8, wherein each of said first and second contact beams of said first and second contacts comprise a guide surface, said guide surfaces of adjacent contact beams divergently flared relative to one another.

11. A low profile contact assembly in accordance with Claim 8, wherein said first and second contact beams of said first and second contacts include distal end portions adapted to receive a pin therebetween as the pin is inserted along an axis perpendicular to a longitudinal axis of said distal end portions.

12. A low profile contact assembly in accordance with Claim 8, wherein said first and second contacts includes at least one projection configured to contact a solder ball.

13. A low profile contact assembly in accordance with Claim 8 wherein each of said contact beams extends along a longitudinal axis, said contact beams having a lower edge and an upper edge, and a guide surface extending from said upper edge and having a flared tip.

14. A low profile contact assembly in accordance with Claim 8, said first and second contacts having a profile dimension measured along an insertion axis extending substantially perpendicular to said longitudinal axis, said profile dimension being less than about 2mm between said tip and said lower edge.

15. A low profile electrical connector comprising:

a housing; and

at least one low profile contact situated within said housing, said contact comprising:

a curved resilient spring portion, and

a first contact beam and a second contact beam extending from opposite ends of said spring portion, said first contact beam and said second contact beam extending along a longitudinal axis, at least one of said distal end portions comprising an upstanding guide surface configured to receive and align a connection pin inserted between said first and second contact beams along an insertion axis substantially perpendicular to said longitudinal axis.

16. A low profile electrical connector in accordance with Claim 15, wherein said housing is configured to maintain said first contact beam in a stationary position relative to said housing while permitting said second contact beam to deflect when a pin is inserted between said contact beams along said insertion axis.

17. A low profile electrical connector in accordance with Claim 15 further comprising a second contact having a curved spring portion and first and second contact beams extending therefrom, said first and second contacts arranged in said housing in an inverse position relative to one another such that said spring portions of each of said first and second contacts are oriented toward one another in a nested configuration.

18. A low profile electrical connector in accordance with Claim 15, wherein each of said first and second contact beams comprise a guide surface, said guide surfaces of said first and second contact beams divergently flared relative to one another.

19. A low profile electrical connector in accordance with Claim 15, wherein said first and second contacts includes at least one projection configured to contact a solder ball.

20. A low profile electrical connector in accordance with Claim 15, wherein each of said contact beams extend along a longitudinal axis, said contact beams having a lower edge and an upper edge, and a guide surface extending from said upper edge and having a flared tip, said first and second contacts having a profile dimension measured along said insertion axis, said profile dimension being less than about 2mm between said tip and said lower edge.